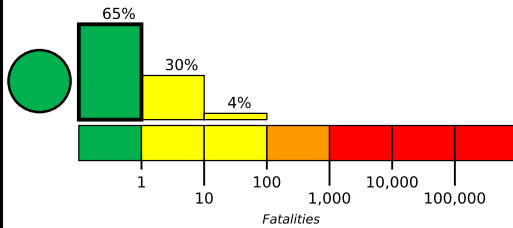


M 6.1, 8km N of Canoas, Costa Rica

Origin Time: 2019-05-12 19:24:50 UTC (Sun 13:24:50 local)
Location: 8.6091° N 82.8387° W Depth: 19.0 km

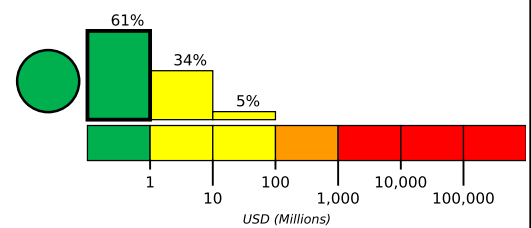
Created: 1 day, 0 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

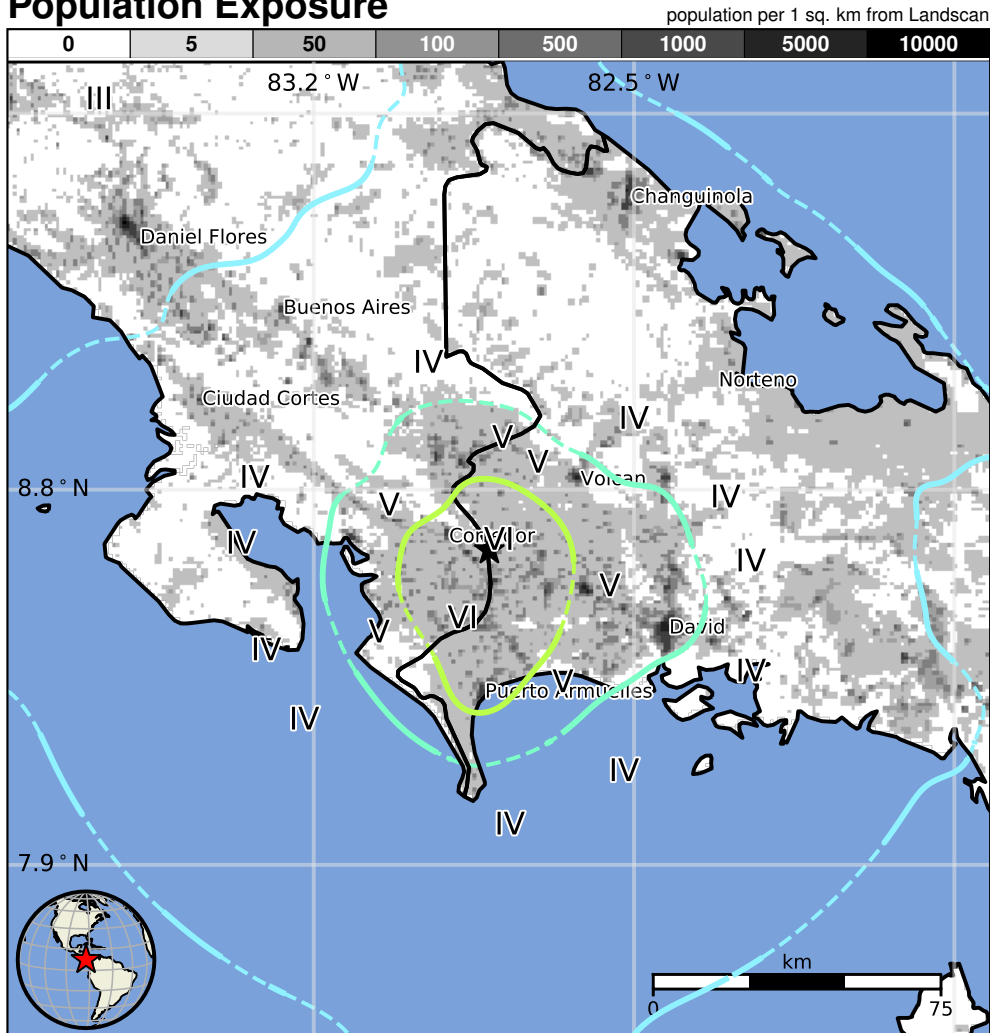


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	175k*	467k	362k	167k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unreinforced brick masonry and adobe block construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-07-10	159	5.8	VII(45k)	1
1990-12-22	215	5.9	VIII(188k)	1
1991-04-22	120	7.6	VII(213k)	75

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Puerto Armuelles	19k
VI	Canoas	5k
VI	Progreso	2k
VI	Brenon	<1k
VI	Aserio de Gariche	2k
VI	Finca Corredor	1k
V	David	83k
IV	Changuinola	23k
IV	Bocas del Toro	13k
III	Buabidi	<1k
III	San Isidro	35k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us70003k3p#pager>

bold cities appear on map.

(k = x1000)

Event ID: us70003k3p